

WHAT IS CLAIMED IS:

1. A colorless glass composition having a base glass composition, comprising, in weight percentage, from about 0.01 to 0.03 wt% of  $\text{Fe}_2\text{O}_3$ ; from about 20-30% reduction ( $\text{Fe}^{2+}$ ) and from about 0.05 to 1 wt% of  $\text{TiO}_2$ , the glass having a visible  
5 light transmission of at least 87%, a ultraviolet radiation transmittance no more than 81%; a solar direct transmittance no more than 90%; a dominant wavelength from 600 to 490 nm; and a purity of less than 2%.
2. The colorless glass composition as defined in claim 1, wherein said glass has a color tint as defined in the CIE Hunter Lab Illuminant C, in the ranges ah (green-  
10 red) from 0 to -1.5; bh (blue-yellow) from -0.5 to 1.0, and having an Lh value greater than 93.
3. The colorless glass composition as defined in claim 1, wherein said glass is produced with a thickness from about 3.2 millimeters.
4. The colorless glass composition as defined in claim 1, wherein the %  
15 visible light transmission is increased from about 89.5% to about 91.7%, with an increase of 0.6%  $\text{TiO}_2$ .
5. The colorless glass composition as defined in claim 1, wherein the visible light transmission is greater than 89%.
6. A colorless glass composition having a base glass composition,  
20 comprising, in weight percentage: from 70 to 75% of  $\text{SiO}_2$ ; from 10 to 15% of  $\text{Na}_2\text{O}$ ; from 5 to 10% of  $\text{CaO}$ ; from 0 to 5% of  $\text{MgO}$ ; from 0.0 to 3 %  $\text{K}_2\text{O}$ ; from 0.1 to 1.0 %

Al<sub>2</sub>O<sub>3</sub> % and compounds consisting of from about 0.01 to 0.03% of Fe<sub>2</sub>O<sub>3</sub>; from about 20 to 30% reduction (Fe<sup>2+</sup>) and from about 0.05 to 1% of TiO<sub>2</sub>, the glass having a visible light transmission of at least 89%; an ultraviolet radiation transmittance of no more than 81%; solar direct transmittance of no more than 90%; a dominant wavelength from  
5 600 nm to 490 nm; and a purity of less than 2%.

7. The colorless glass composition as defined in claim 6, wherein said glass has a color tint as defined in the CIE Hunter Lab illuminant C, in the ranges ah (green-red) from 0 to -1.5; bh (blue-yellow) from -0.5 to 1.0, and having an Lh value greater than 93.

10 8. The colorless glass composition as defined in claim 6, wherein said glass is produced with a thickness from about 3.2 millimeters.

9. The colorless glass composition as defined in claim 6, wherein the visible light transmission is increased from about 89.5% to about 91.7%, with an increase of 0.6% TiO<sub>2</sub>.

15 10. The colorless glass composition as defined in claim 6, wherein the visible light transmission is greater than 89%.